



**Slope Applications:**

2H:1V up to Near Vertical (85°)



**RECOMMENDED TOOLS & MATERIALS**

Tools and materials will range from project to project. For large projects with easy access, machinery such as an excavator or skid-steer are ideal. For small or hard to access sites, here is a list of the Hand tools you will need:

- Marking Paint
- Tape Measure
- Level or Transit
- Shovels (flat & spaded)
- Hard Rake(s)
- Hand Tamper
- Vibratory Compactor
- Grub Ax
- Chalk Line

**GETTING STARTED**

The following instructions are for typical installations. Review the plan set or construction details for foundation course, embedment depth, reinforcement needs, and vegetation applications. If you have questions or need more guidance, contact the Envirolok Team at 608-226-2565 or [ecosolutions@envirolok.com](mailto:ecosolutions@envirolok.com).

- A. For slopes greater than 3.5' tall or more complex projects, determine the type of additional reinforcement required (tie-back bags, geogrid layering, earth anchors).
- B. Fill the Envirolok bags. (Click Here for Filling Instructions)
- C. Mark the face of the toe of the wall on site.
- D. Locate site utilities prior to any excavation.

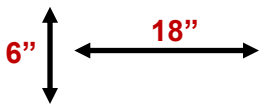


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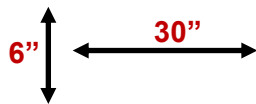
**STEP 1: PREPARING THE SETTING TRENCH**

**A)** Starting at the face of the toe location, **EXCAVATE A LEVEL TRENCH** to the designed width and depth. These measurements will vary depending on wall height and application and will be detailed in your plan set or construction details.

**Standard Pattern  
 Foundation Course**



**Tie-Back Pattern  
 Foundation Course**



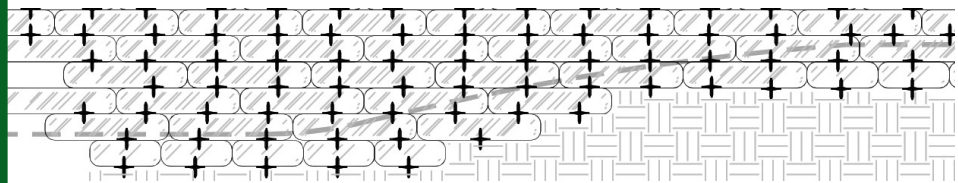
**STEP 1: PREPARING THE SETTING TRENCH (CONT.)**

**B) Compact the base of the trench.**

Loose soil, gravel, fines, or sand can be used to level the trench if needed.

Notes:

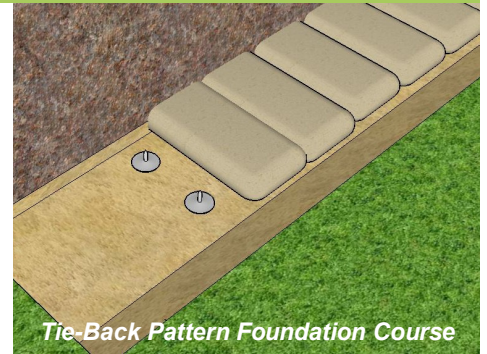
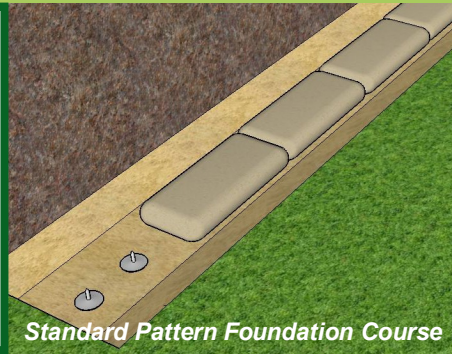
- In heavy clay or wet soil conditions, an additional compacted aggregate foundation base may be required.
- If grade changes along the Foundation Course of the wall, create a stepped base trench at 5.5" to 6" high intervals to ensure proper embedment



Step the Foundation Course at 5.5" to 6" depth intervals along contours to maintain a minimum of 1 course of embedded bags.

**STEP 2: INSTALLING THE FOUNDATION COURSE**

**A) Set the Spikes.** When base conditions are suitable, spikes should be placed in the base material. Begin by placing 2 spikes at the starting location of the foundation course. Spikes should be centered in the desired bag location and placed 12"-18" apart as shown.



Note: Placing all the spikes prior to setting the bags is not generally recommended as spike location may need to be adjusted based on actual bag layout.

**B) Install the first bag** by laying it over the spikes. Wrap the snorkel under the bag to help control bag height and length.\*

**C) Compact each bag** after it is set using a hand tamper.

**D) Repeat steps A-C** until the foundation course is complete.

**E) Backfill and compact material** in any gaps in front of or behind the Foundation Course.



\*When Foundation Course is installed in a tie-back pattern, place the bag with the snorkel facing inward.



Note: Compacting each bag after it is set provides better connection and uniformity.

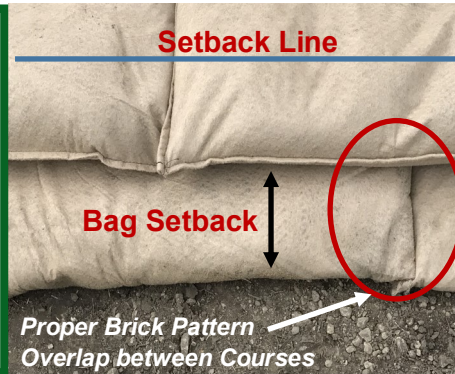
## STEP 3: INSTALLING ADDITIONAL COURSES

The following steps are for gravity wall installations. For slopes >3.5' tall or more complex projects, consult with an engineer or the Envirolok Team for reinforcement recommendations. For more information on reinforcement techniques, click on the links below.

### Geogrid Reinforcement

### Anchor Reinforcement

- A) Measure and mark the bag setback** with a chalk line or tape measure and marker. This will help as a guide when setting and ensure a more uniform setback.
- B) Note:** Mark the line 1" behind the desired setback, as the bag "widens" when compacted.



- B) Place 2 spikes** at the starting location of the next course. Spikes should be centered in the desired bag location and placed 12"-18" apart.



- C) Shake the bag** to settle the contents and wrap the snorkel and zip tie under the bag. This will help control the bag height and length.



- D) Install the first bag over the spikes.** Place the bag with the seam facing inward. Remember to place the face of the bag approximately 1" behind the desired bag setback.



- E) Compact each bag** with a hand tamper as each bag is set.



Plant plugs, live stakes, or bare root plants can be installed during installation:

1. Place 2 to 3 plants per bag so that the root node or soil level will be even with the face of the bag above.
2. Sprinkle a handful of loose soil around the roots.
3. Install the next course of Envirolok Units above.

**STEP 4: BACKFILL**

**A) Place and compact backfill** after each course is installed. **Do Not use clear gravel** for backfill as it will limit growth of vegetation. See Envirolok specifications or consult the Envirolok Team to determine appropriate backfill material.



**REPEAT  
STEPS 3 & 4**

*Repeat the above steps 3 & 4 until all courses are complete. Be sure to install bags tightly together so there are no gaps between bags.*

**STEP 5: INSTALL THE COPING COURSE**



**A)** For the best vegetative results, **place the top course or “Coping Course” in a Tie-Back pattern** with the back of the bag angled downward.

**B)** Follow steps 3 & 4 for instructions for spike and bag placement, compacting and backfill. **Do Not Place** spikes on top of the Coping Course

**C)** Place 1-2” of topsoil over the top of the Coping Course prior to planting or seeding.

**STEP 6: CLEAN UP & PREP FOR VEGETATION**

Here is a quick checklist for the final steps in completing the Envirolok installation and getting ready for vegetation.

- Tuck any exposed snorkels or zip ties between bags.
- Check the wall and surrounding area for encroaching weeds and remove weeds as needed.
- Trim exposed geogrid from layering or anchor wrapping.
- Redirect surface flow away from wall until vegetation is established.
- Identify nearby water sources for irrigation or watering.



**Need Help? Contact the  
Envirolok Team at  
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or  
ecosolutions@envirolok.com**